

Product datasheet for **MC216490**

Rgs6 (NM_015812) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rgs6 (NM_015812) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rgs6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216490 representing NM_015812
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCAGGGTCCGGGACCAGCGAGCAGTGGGGATCGCTGATCCAGAAGAGAGTTCTCCCAACATGA
 TTGTCTACTGCAAAATTGAGGACATCATTACAAAGATGCAAGATGACAAGACAGGGGTGTGCCATCAG
 AACAGTTAAGAGCTTTCTCTCCAAAATCCCCAGTGTCTGTCACAGGTAAGTACTGACATTGTACAGTGGCTTATG
 AAGAACCTTTCCATTGAGGACCCAGTTGAAGCAATACACCTGGGAAGCCTTATTGCCGCCAGGGCTACA
 TCTTCCCAATCTCAGACCATGTTCTCACCATGAAGGACGATGGCACCTTTTACCGTTTCCAGGCTCCTTA
 CTTCTGGCCTTCAAACCTGCTGGGAACCTGAAAACACGGACTATGCCATCTATCTCTGTAAGAGGACGATG
 CAGAACAAGCAAGGCTGGAACCTGGCCGACTACGAAGCAGAAAACCTTAGCAAGACTCCAGAGGGCCTTTG
 CAAGGAAGTGGGAATTCATCTTTATGCAAGCAGAAGCACAAGTGAAGATTGACCGGAAAAAGGATAAGAC
 AGAAAGAAAAATCTGGATAGCCAAGAACGGCCCTTCTGGGATGTCCACAGGCCAGTCCAGGCTGTGTG
 AACACAACAGAAATGGATATCAGAAAATGTCGGGTTTGAAGAATCCACAAAAGGTTAAAAAGTCAGTAT
 ATGGTGTGACAGACGAGACCCAGTCACAGAGTCCAGTGCACATACCAAGCCAGCCAATCAGGAAAACCTAC
 AAAAGATGACATCCGAAAACAGATAACGTTTTTGAATGCACAGATTGACAGACATTGTTTAAAAATGTCC
 AAAGTGGCTGAAAGTTTAAATCGCTTACACGGAGCAGTATGTGGAGTACGCCATTTCATAACACCAGCAG
 AGCCATCTAATCCTTGGATCAGCGATGACATCACCTTATGGGACATAGAGATGAGCAAAGAGCCAGCCA
 GCAGCGAGTGAAGCGTTGGGCTTCTCTTTTGTGAGATACTGAAGGACCAGGTGGGCGGGACCAAGTTC
 CTCAGATTCTGGAGTCAGAATTCAGCTCAGAAAATCTCAGTTCCTGGCTGTCTGTCCAAGATCTCAAGA
 AGCAACCTCTACAGGACGTGGCCAAGAGGGTGGAGGAAATCTGGCAAGAGTTTCTAGCTCCCGAGCCCC
 AAGTGCAATCAACTGGATTCTCACAGCTATGAGATAACCAAGTCAGAATGTCAAAGATGGAGGGAGATAC
 ACATTTGAAGATGCCAGGAGCAGATCTACAAGCTGATGAAGAGTACAGCTATGCCCGCTTCTACGGT
 CCAACGCTTACCAGGATCTGTTGCTGGCCAAGAAGAAGGAAAGTCGCTGGCGGGCAAGCGCCTTACGGG
 CCTGATGCAGTCTCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_015812
- Insert Size:** 1419 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_015812.4](#), [NP_056627.1](#)

RefSeq Size: 5983 bp

RefSeq ORF: 1419 bp

Locus ID: 50779

UniProt ID: [Q9Z2H2](#)

Cytogenetics: 12 38.14 cM

Gene Summary: This gene encodes a member of the RGS (regulator of G protein signaling) family of proteins, which are defined by the presence of a RGS domain that confers the GTPase-activating activity of these proteins toward certain G alpha subunits. This protein also belongs to a subfamily of RGS proteins characterized by the presence of DEP (Dishevelled, Egl-10, and Pleckstrin) and GGL (G-protein gamma like) domains, the latter a G beta 5-interacting domain. The RGS proteins negatively regulate G protein signaling, and may modulate neuronal, cardiovascular, lymphocytic activities, and cancer risk. Mice lacking this gene exhibit decreased heart rate. Alternative splicing results in multiple transcript variants, however, the full-length nature of some of these variants is not known. [provided by RefSeq, Sep 2015]
Transcript Variant: This variant (1) lacks an alternate in-frame exon in the 3' coding region, compared to variant 3. Variants 1 and 2 encode the same isoform (2), which is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.